

(For JSPS Fellow)

Form B-5

Date (日付)

27/08/2014 (Date/Month/Year: 日/月/年)**Activity Report -Science Dialogue Program-**
(サイエンス・ダイアログ事業 実施報告書)- Fellow's name (講師氏名): Mickael Lozac' h (ID No. P13716)- Participating school (学校名): Fukushima High School- Date (実施日時): 25/08/2014 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) French Culture, and Solar Energy(in Japanese) フランスの文化と太陽電子

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

My lecture was scheduled soon after the summer holidays, so I decided to present more the following points. In the first part I spoke about the region where I come from, Brittany, with its tradition, the old language still present in this area and its specialities. Then I presented the French educational system to reveal the similitudes and differences between France and Japan. I underlined the periode where students start to learn foreign languages, and the importance to listen English in the daily life by watching movies in the original language or by trying to understand the meaning of musics they like. I switched with my personal experience when I was in high school, what I liked to study, followed by my university curriculum and my motivation to become a researcher. I finished the second part of my talk by presenting the field I really like, the research about solar energy, which uses the knowledge of many different fields previously learned in university, and finally the importance of the development of green enegies. To introduce the third part of my talk I explained about the green house effect, about how much radiative energy the earth received by the sunlight, and why the research about solar energy is important. Then I explained the photovoltaic effect. I talked about my professional experience with my research on different semiconductor materials . I spoke about the enhancement of solar cell efficiencies thanks to the research done on each semiconductor material. I also presented the utility of each semiconductor material undepending of its efficiency. I finished the lecture by presenting an advanced structure with high efficiency thanks to a better absorption of the sunlight: a multi-junction solar cell.

- Language used (使用言語): Japanese and English 日本語と英語

- Lecture format (講演形式):

◆Lecture time (講演時間) 40 min (分), Q&A time (質疑応答時間) 40 min (分)

◆Lecture style (ex.: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

Powerpoint presentation using projector, no experiment was conducted

◆Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

I provided Japanese explanation by myself

◆Name and title of accompanied person (同行者 職・氏名)

◆Other note worthy information (その他特筆すべき事項):

- Impressions and opinions from accompanied person (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):